TCEQ Interoffice Memorandum

To: Tony Walker

Director, TCEQ Region 4, Dallas/Fort Worth

Alyssa Taylor

Special Assistant to the Regional Director, TCEQ Region 4, Dallas/Fort Worth

From: Jennifer McKinney Ph.D.

Toxicology Division, Office of the Executive Director

Date: March 10, 2017

Subject: Toxicological Evaluation of Results from an Ambient Air Sample for Volatile

Organic Compounds Collected Downwind of EnLink North Texas Gathering LP – White Settlement Compressor Station (Latitude 32.770833, Longitude -97.601944)

near White Settlement, Parker County, Texas.

Sample Collected on January 31, 2017, Request Number 1702001 (Lab Sample

1702001-001).

Key Points

• Reported concentrations of target volatile organic compounds (VOCs) were either not detected or were detected below levels of short-term health and/or welfare concern.

Background

On January 31, 2017, a Texas Commission on Environmental Quality (TCEQ) Region 4 air investigator collected a 30-minute canister sample (Lab Sample 1702001-001) downwind of EnLink North Texas Gathering LP – White Settlement Compressor Station near White Settlement, Parker County, Texas (Latitude 32.770833, Longitude -97.601944). The investigator experienced a very light, intermittent odor, but no health effects while sampling. Meteorological conditions measured at the site or nearest stationary ambient air monitoring site indicated that the ambient temperature was 69°F with a relative humidity of 31%, and winds were from the southwest (220°) at 4.2 miles per hour. The sampling site was 101-300 feet from the possible emission source. The nearest location where the public could have access was greater than 501 feet from the possible emission source (multiple emission sources). The sample was sent to the TCEQ laboratory in Austin, Texas, and analyzed for a range of VOCs. The list of the target analytes that were evaluated in this review is provided in Attachment A. The VOC concentrations were reported in parts per billion by volume (ppbv) (Attachment B and Table 1).

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Please note that the available canister technology and analysis method cannot capture and/or analyze for all chemicals.

Results and Evaluation

Reported VOC concentrations were compared to TCEQ's short-term health- and/or welfare-based air monitoring comparison values (AMCVs) (Table 1). Short-term AMCVs are guidelines used to evaluate ambient concentrations of a chemical in air and to determine its potential to result in adverse health effects, adverse vegetative effects, or odors. Health AMCVs are set to provide a margin of safety and are set well below levels at which adverse health effects are reported in the scientific literature. If a chemical concentration in ambient air is less than its comparison value, no adverse health effects are expected to occur. If a chemical concentration exceeds its comparison value it does not necessarily mean that adverse effects will occur, but rather that further evaluation is warranted.

All of the 84 VOCs were either not detected or were detected below their respective short-term AMCVs. Exposure to levels of VOCs measured in this sample would not be expected to cause short-term adverse health effects, adverse vegetative effects, or odors.

Please call me at (512) 239-1785 if you have any questions regarding this evaluation.

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Attachment A

List of Target Analytes for Canister Samples

ethane
ethylene
acetylene
propane
propylene
dichlorodifluoromethane
methyl chloride
isobutane
vinyl chloride
1-butene
1,3-butadiene
n-butane
t-2-butene
bromomethane
c-2-butene

3-methyl-1-butene isopentane

trichlorofluoromethane

1-pentene n-pentane isoprene t-2-pentene

1,1-dichloroethylene

c-2-pentene

methylene chloride 2-methyl-2-butene 2,2-dimethylbutane cyclopentene 4-methyl-1-pentene
1,1-dichloroethane
cyclopentane
2,3-dimethylbutane
2-methylpentane
3-methylpentane

2-methyl-1-pentene + 1-hexene

n-hexane chloroform t-2-hexene c-2-hexene

1,2-dichloroethane methylcyclopentane 2,4-dimethylpentane 1,1,1-trichloroethane

benzene

carbon tetrachloride

carbon tetrachionae cyclohexane 2-methylhexane 2,3-dimethylpentane 3-methylhexane 1,2-dichloropropane trichloroethylene 2,2,4-trimethylpentane 2-chloropentane

n-heptane

c-1,3-dichloropropylene methylcyclohexane

t-1,3-dichloropropylene 1,1,2-trichloroethane 2,3,4-trimethylpentane

toluene

2-methylheptane 3-methylheptane 1,2-dibromoethane

n-octane tetrachloroethylene chlorobenzene ethylbenzene m & p-xylene

styrene

1,1,2,2-tetrachloroethane

o-xylene n-nonane

isopropylbenzene n-propylbenzene m-ethyltoluene p-ethyltoluene

1,3,5-trimethylbenzene

o-ethyltoluene

1,2,4-trimethylbenzene

n-decane

1,2,3-trimethylbenzene m-diethylbenzene p-diethylbenzene n-undecane Tony Walker et al. Page 4 March 10, 2017

Attachment B

2/13/2017

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1702001

Request Lead:Frank Martinez

Project(s): NA

Region: T04

Date Received: 2/3/2017

| | Facility(ies) Sampled | City | County | Facility Type |
|---|--|------------------|--------|---------------|
| 1 | EnLink North Texas Gathering LP - White Settlement C | White Settlement | Parker | |

Sample(s) Received

Field ID Number: N0613-139-0117

Laboratory Sample Number: 1702001-001

Sampled by: John Malik

Sampling Site: 235 feet downwind from the Produced Water Ti Date & Time Sampled: 01/31/17 12:09:00 Valid Sample: Yes Comments: Canister N0613 was used to collect a 30-minute downwind sample using OFC-139. Full Facility Name: EnLink North Texas Gathering LP - White Settlement Compressor Station

Requested Laboratory Procedure(s):

Analysis: AP001VOC

Determination of VOCs in Canisters by GC/MS Using Modified Method TO-15

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Laboratory Analysis Results Request Number: 1702001 Analysis Code: AP001VOC

| Lab ID | | | 120 | 2001-001 | | | | | | |
|--|-------|------|-----|------------------|-------------------|-------|------|-----|------------------|---------|
| Field ID | | | | 3-139-0117 | | | | | | |
| | _ | | | | | - | | | 200 | |
| Canister 1D | | - | | V0613 | | - | | | Landonia I | |
| Compound | Conc | SDL | SQL | Analysis Date | Flags** | Conc. | SDL | SQL | Analysis Date | Flags** |
| ethane | 200 | 1.0 | 2.4 | 2/7/2017 | T,D1 | | 12. | | | |
| ethylene | 1.8 | 1.0 | 2.4 | 2/7/2017 | L,T,D1 | | | | | |
| acetylene | ND | 1.0 | 2.4 | 2/7/2017 | T,D1 | | | | 100 | |
| propane | 37 | 1.0 | 2.4 | 2/7/2017 | T,DI | | | | 17 1 | |
| propylene | ND | 1.0 | 2.4 | 2/7/2017 | T,DI | | 0. 3 | | | |
| dichlorodifluoromethane | 0.42 | 0.40 | 1.2 | 2/7/2017 | L,DI | 1 | | | | |
| methyl chloride | 0.46 | 0.40 | 1.2 | 2/7/2017 | L,DI | | | | | |
| isobutane | 5.9 | 0.46 | 2.4 | 2/7/2017 | D1 | 1 | 1 | | | |
| vinyl chloride | ND | 0.34 | 1.2 | 2/7/2017 | D1 | | | | | |
| 1-butene | ND | 0.40 | 1.2 | 2/7/2017 | DI | | | | | |
| 1,3-butadiene | ND | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| n-butane | 8.8 | 0.40 | 2.4 | 2/7/2017 | DI | 1 | | | | |
| t-2-butene | ND | 0.36 | 1.2 | 2/7/2017 | DI | | | | | |
| bromomethane | ND | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| c-2-butene | ND | 0.54 | 1.2 | 2/7/2017 | D1 | | | | | |
| 3-methyl-1-butene | ND | 0.46 | 1.2 | 2/7/2017 | DI | | | | | |
| sopentane | 3.4 | 0.54 | 4.8 | 2/7/2017 | L.DI | - | | | | |
| richlorofluoromethane | 0.22 | 0.58 | 1.2 | 2/7/2017 | J,DI | 1 | - | | | |
| I-pentone | ND | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| n-pentane | 2.8 | 0.54 | 4.8 | 2/7/2017 | L.DI | - | - | | | - |
| soprene | ND | 0.54 | 1.2 | 2/7/2017 | D1 | | | 1 0 | | |
| -2-pentene | ND | 0.54 | 2.4 | 2/7/2017 | DI | - | | | | |
| 1,1-dichloroethylene | ND | 0.36 | 1.2 | 2/7/2017 | DI | 1 | | 100 | | |
| >2-pentene | ND | 0.50 | 2.4 | 2/7/2017 | D1 | + | | | | |
| methylene chloride | 0.06 | 0.28 | 1.2 | 2/7/2017 | J,DI | - | | | | |
| 2-methyl-2-butane | ND | 0.46 | 1.2 | 2/7/2017 | DI | 1 | | | | |
| 2,2-dimethylbutane | 0.16 | 0.42 | 1.2 | 2/7/2017 | J.DI | 1 | - | | | |
| cyclopentene | ND | 0.40 | 1.2 | 2/7/2017 | DI | 1 | | | - | |
| 4-methyl-1-pentene | ND | 0.44 | 2.4 | 2/7/2017 | DI | | | - | | |
| 1,1-dichloroethate | ND | 0.38 | 1.2 | 2/7/2017 | DI | | | | | |
| cyclopentane | 0.08 | 0.54 | 1.2 | 2/7/2017 | J.DI | 1 | | | | |
| 2,3-dimethylbutane | 0.14 | 0.56 | 2.4 | 2/7/2017 | J.DI | | | | - | |
| 2-methylpentane | 1.1 | 0.54 | 1.2 | 2/7/2017 | L.D1 | 1 | | | | |
| 3-methylpentane | 0.68 | 0.46 | 1.2 | 2/7/2017 | L,D1 | 1 | | | | |
| 2-methyl-1-pentene + 1-hexene | ND | 0.40 | 4.8 | 2/7/2017 | Di | 3 | | | | |
| n-hexane | 1.1 | 0.40 | 2.4 | 2/7/2017 | L,D1 | 1 | | | | |
| chloroform | ND ND | 0.40 | 1.2 | 2/7/2017 | DI | | | | | |
| -2-hexene | ND | 0.54 | 2.4 | 2/7/2017 | DI | 1 | | | | |
| -2-hexene | ND | 0.54 | 2.4 | 2/7/2017 | DI | 1 | | | | |
| 2-dichloroethane | ND ND | 0.54 | 1.2 | 2/7/2017 | DI | 1 | | | 1 | |
| nethylcyclopentane | 0.22 | 0.54 | 2.4 | 2/7/2017 | 1,D1 | | | | | |
| | 0.22 | 0.54 | 2.4 | 2/7/2017 | J.DI | 1 | | | | |
| 2,4-dimethylpentane 1,1,1-trichloroethane | ND | 0.52 | 1.2 | 2/7/2017 | DI | - | | | | |
| henzene | 4.3 | 0.54 | 1.2 | 2/7/2017 | DI | - | | | | |
| senzene carbon tetrachloride | 0.07 | 0.54 | 1.2 | 2/7/2017 | J.DI | - | | | | |
| | - | 0.34 | 1.2 | 2/7/2017 | I _o D1 | - | | | | |
| cyclolicicane | 0.65 | | 1.2 | 2/7/2017 | J,D1 | - | | - | | |
| 2-methylhexine | 0.49 | 0.54 | | | J,D1 | - | | | | |
| 2,3-dimethylpentane | 0.09 | 0.52 | 1.2 | 2/7/2017 | 1,131 | | | | | |

Laboratory Analysis Results Request Number: 1702001

Analysis Code: AP001VOC

| Note: Results are reported in | units of ppbv | | | | | 10 | | | | |
|-------------------------------|---------------|------|------|------------------|---------|-------|-----|-------|------------------|---------|
| Lab ID | | | 1702 | 001-001 | | | | | | |
| Compound | Conc. | SDL | SQL | Analysis Date | Flags** | Conc. | SDL | SQL | Analysis Date | Flags** |
| 3-methylhexane | 0.39 | 0.40 | 1.2 | 2/7/2017 | J,D1 | | | | | |
| 1,2-dichloropropane | ND | 0.34 | 1.2 | 2/7/2017 | DI | | 18 | | | |
| trichloroethylene | ND | 0.58 | 1.2 | 2/7/2017 | D1 | | | | | |
| 2,2,4-trimethylpentane | 0.02 | 0.48 | 1.2 | 2/7/2017 | J,Dt | | | | | |
| 2-chloropentane | ND | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| n-heptane | 0.52 | 0.50 | 2,4 | 2/7/2017 | L,D1 | | | | | |
| c-1,3-dichloropropylene | ND | 0.40 | 1.2 | 2/7/2017 | DI | 1 | | 10-2 | | |
| methylcyclohexane | 0.66 | 0.32 | 2.4 | 2/7/2017 | L,D1 | | | | | |
| t-1,3-dichlaropropylene | ND | 0.40 | 1.2 | 2/7/2017 | DI | | | | | |
| 1,1,2-trichloroethane | ND | 0.42 | 1.2 | 2/7/2017 | D1 | T | | | | |
| 2,3,4-trimethylpentane | 0.01 | 0.48 | 2.4 | 2/7/2017 | J,D1 | | | | | |
| toluene | 4.7 | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| 2-methylheptane | 0.16 | 0.40 | 2.4 | 2/7/2017 | J,DI | | | | | |
| 3-methylheptane | 0.12 | 0.46 | 2.4 | 2/7/2017 | J,DI | | | | | |
| 1,2-dibromoethane | ND | 0.40 | 1.2 | 2/7/2017 | - D1 | | | | | |
| n-octane | 0.15 | 0.38 | 2.4 | 2/7/2017 | J,D1 | | | | | |
| tetrachloroethylene | 0.01 | 0.48 | 1.2 | 2/7/2017 | J.DI | | | | | |
| chlorobenzene | ND | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| ethylbenzene | 0.10 | 0.54 | 2.4 | 2/7/2017 | J,DI | | | | | |
| m & p-xylene | 0.85 | 0.54 | 4.8 | 2/7/2017 | L,D1 | 18 | | | | |
| styrene | ND | 0.54 | 2.4 | 2/7/2017 | D1 | | | | | |
| 1,1,2,2-tetrachloroethane | ND | 0.40 | 1.2 | 2/7/2017 | DI | | | | | |
| o-xylene | 0.15 | 0.54 | 2.4 | 2/7/2017 | J,D1 | | | | | |
| n-nonane | 0.04 | 0.44 | 1.2 | 2/7/2017 | J,D1 | | | | | |
| isopropylbenzene | ND | 0.48 | 1.2 | 2/7/2017 | DI | | | - 3 | | |
| n-propythenzene | ND | 0.54 | 1.2 | 2/7/2017 | DI | 10. | 9 | 10 10 | | |
| m-ethyltoluene | 0.02 | 0.22 | 1.2 | 2/7/2017 | J,D1 | | | | - 39 | |
| p-ethyltolaene | 0.01 | 0.32 | 2.4 | 2/7/2017 | J,D1 | | | | | |
| 1,3,5-trimothylbenzone | ND | 0.50 | 2.4 | 2/7/2017 | DI | | | 1 - 0 | | |
| o-ethyltolaene | 0.01 | 0.26 | 2.4 | 2/7/2017 | J,D1 | | | | | |
| 1,2,4-trimethy/benzene | 0.03 | 0.54 | 1.2 | 2/7/2017 | J,D1 | | | | | |
| n-decane | 0.01 | 0.54 | 2.4 | 2/7/2017 | J,D1 | | | | | |
| 1,2,3-trimethylbenzene | 0.01 | 0.54 | 1.2 | 2/7/2017 | J,D1 | 0 | | | | |
| m-diethylbenzene | ND | 0.54 | 2.4 | 2/7/2017 | DI | | 1 | | | |
| p-diethy/benzene | ND | 0.54 | 1.2 | 2/7/2017 | DI | | | | | |
| n-undecane | ND | 0.54 | 2.4 | 2/7/2017 | DI | | | | | |

Laboratory Analysis Results Request Number: 1702001

Analysis Code: AP001VOC

Qualifier Notes:

- ND not detected NQ concentration can not be quantified due to possible interferences or coclutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
 SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
 INV Invalid.
 J Reported concentration is below SDL.

- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.

 E Reported concentration exceeds the upper limit of instrument calibration.

 M Result modified from previous result.

 T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control. H Not all associated hold time specifications were met. Data may be biased.
- C Sample received with a missing or broken custody seal.

 R Sample received with a missing or incomplete chain of custody

- Sample received with a missing or incomplete crim
 Sample received without a legible unique identifier,
 Sample received in an improper container.
 U Sample received with insufficient sample volume,
 W Sample received with insufficient preservation.

Quality control notes for AP001VOC samples.

D1-Sample concentration was calculated using a dilution factor of 4.01.

TCEQ laboratory customer support may be reached at Frank.Martinez@tceq.texas.gov

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Table 1. Comparison of Monitored Concentrations in Lab Sample 1702001-001 to TCEQ Short-Term AMCVs

| Lab Sample ID | 1702001-001 | | | | | | | |
|-----------------------------------|----------------------------------|---|-------------------------|--|-------|----------------------------|--|--|
| Compound | Odor AMCV (ppb _v) | Short-Term Health AMCV (ppb _v) | SQL (ppb _v) | Concentratio ns (ppb _v) | Flags | SDL (ppb _v) | | |
| 1,1,1-Trichloroethane | | 1,700 | 1.2 | ND | D1 | 0.52 | | |
| 1,1,2,2-Tetrachloroethane | | 10 | 1.2 | ND | D1 | 0.4 | | |
| 1,1,2-Trichloroethane | | 100 | 1.2 | ND | D1 | 0.42 | | |
| 1,1-Dichloroethane | | 1,000 | 1.2 | ND | D1 | 0.38 | | |
| 1,1-Dichloroethylene | | 180 | 1.2 | ND | D1 | 0.36 | | |
| 1,2,3-Trimethylbenzene | | 3000 | 1.2 | 0.01 | J,D1 | 0.54 | | |
| 1,2,4-Trimethylbenzene | | 3000 | 1.2 | 0.03 | J,D1 | 0.54 | | |
| 1,2-Dibromoethane | | 0.5 | 1.2 | ND | D1 | 0.4 | | |
| 1,2-Dichloroethane | | 540 | 1.2 | ND | D1 | 0.54 | | |
| 1,2-Dichloropropane | | 100 | 1.2 | ND | D1 | 0.34 | | |
| 1,3,5-Trimethylbenzene | | 3000 | 2.4 | ND | D1 | 0.5 | | |
| 1,3-Butadiene | 230 | 1,700 | 1.2 | ND | D1 | 0.54 | | |
| 1-Butene | | 27,000 | 1.2 | ND | D1 | 0.4 | | |
| 1-Pentene | 100 | 12,000 | 1.2 | ND | D1 | 0.54 | | |
| 2,2,4-Trimethylpentane | | 4,100 | 1.2 | 0.02 | J,D1 | 0.48 | | |
| 2,2-Dimethylbutane (Neohexane) | | 1,000 | 1.2 | 0.16 | J,D1 | 0.42 | | |
| 2,3,4-Trimethylpentane | | 4,100 | 2.4 | 0.01 | J,D1 | 0.48 | | |
| 2,3-Dimethylbutane | | 990 | 2.4 | 0.14 | J,D1 | 0.56 | | |
| 2,3-Dimethylpentane | | 8,300 | 1.2 | 0.09 | J,D1 | 0.52 | | |
| 2,4-Dimethylpentane | | 8,300 | 2.4 | 0.05 | J,D1 | 0.54 | | |
| 2-Chloropentane (as chloroethane) | | 240 | 1.2 | ND | D1 | 0.54 | | |
| 2-Methyl-1-Pentene +1-Hexene | | 490 | 4.8 | ND | D1 | 0.4 | | |
| 2-Methyl-2-Butene | | 12,000 | 1.2 | ND | D1 | 0.46 | | |
| 2-Methylheptane | | 4,100 | 2.4 | 0.16 | J,D1 | 0.4 | | |
| 2-Methylhexane | | 8,300 | 1.2 | 0.49 | J,D1 | 0.54 | | |

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| Lab Sample ID | 1702001-001 | | | | | | |
|---------------------------------|----------------------------------|---|-------------------------|--|--------|----------------------------|--|
| Compound | Odor AMCV (ppb _v) | Short-Term Health AMCV (ppb _v) | SQL (ppb _v) | Concentratio ns (ppb _v) | Flags | SDL (ppb _v) | |
| 2-Methylpentane (Isohexane) | | 990 | 1.2 | 1.1 | L,D1 | 0.54 | |
| 3-Methyl-1-Butene | 100 | 7,700 | 1.2 | ND | D1 | 0.46 | |
| 3-Methylheptane | | 4,100 | 2.4 | 0.12 | J,D1 | 0.46 | |
| 3-Methylhexane | | 8,300 | 1.2 | 0.39 | J,D1 | 0.4 | |
| 3-Methylpentane | | 1,000 | 1.2 | 0.68 | L,D1 | 0.46 | |
| 4-Methyl-1-Pentene (as hexene) | | 490 | 2.4 | ND | D1 | 0.44 | |
| Acetylene | | 25,000 | 2.4 | ND | T,D1 | 1 | |
| Benzene | | 180 | 1.2 | 4.3 | D1 | 0.54 | |
| Bromomethane (methyl bromide) | | 30 | 1.2 | ND | D1 | 0.54 | |
| c-1,3-Dichloropropylene | | 9.9 | 1.2 | ND | D1 | 0.4 | |
| c-2-Butene | | 15,000 | 1.2 | ND | D1 | 0.54 | |
| c-2-Hexene | | 490 | 2.4 | ND | D1 | 0.54 | |
| c-2-Pentene | | 12,000 | 2.4 | ND | D1 | 0.5 | |
| Carbon Tetrachloride | | 20 | 1.2 | 0.07 | J,D1 | 0.54 | |
| Chlorobenzene (phenyl chloride) | | 100 | 1.2 | ND | D1 | 0.54 | |
| Chloroform (trichloromethane) | | 20 | 1.2 | ND | D1 | 0.42 | |
| Cyclohexane | | 1,000 | 1.2 | 0.65 | L,D1 | 0.48 | |
| Cyclopentane | | 5,900 | 1.2 | 0.08 | J,D1 | 0.54 | |
| Cyclopentene | | 2,900 | 1.2 | ND | D1 | 0.4 | |
| Dichlorodifluoromethane | | 10,000 | 1.2 | 0.42 | L,D1 | 0.4 | |
| Ethane | | *Simple Asphyxiant | 2.4 | 200 | T,D1 | 1 | |
| Ethylbenzene | | 20,000 | 2.4 | 0.1 | J,D1 | 0.54 | |
| Ethylene | | 500,000 | 2.4 | 1.8 | L,T,D1 | 1 | |
| Isobutane | | 33,000 | 2.4 | 5.9 | D1 | 0.46 | |
| Isopentane (2-methylbutane) | | 68,000 | 4.8 | 3.4 | L,D1 | 0.54 | |
| Isoprene | 47 | 20 | 1.2 | ND | D1 | 0.54 | |

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| Lab Sample ID | 1702001-001 | | | | | |
|--------------------------------------|----------------------------------|--|-------------------------|--|-------|----------------------------|
| Compound | Odor AMCV (ppb _v) | Short-Term Health AMCV (ppb _v) | SQL (ppb _v) | Concentratio ns (ppb _v) | Flags | SDL (ppb _v) |
| Isopropylbenzene (cumene) | 130 | 510 | 1.2 | ND | D1 | 0.48 |
| m & p-Xylene (as mixed isomers) | | 1,700 | 4.8 | 0.85 | L,D1 | 0.54 |
| m-Diethylbenzene | | 460 | 2.4 | ND | D1 | 0.54 |
| Methyl Chloride (chloromethane) | | 500 | 1.2 | 0.46 | L,D1 | 0.4 |
| Methylcyclohexane | | 4,000 | 2.4 | 0.66 | L,D1 | 0.52 |
| Methylcyclopentane | | 750 | 2.4 | 0.22 | J,D1 | 0.54 |
| Methylene Chloride (dichloromethane) | | 3,400 | 1.2 | 0.06 | J,D1 | 0.28 |
| m-Ethyltoluene | | 250 | 1.2 | 0.02 | J,D1 | 0.22 |
| n-Butane | | 92,000 | 2.4 | 8.8 | D1 | 0.4 |
| n-Decane | | 1,750 | 2.4 | 0.01 | J,D1 | 0.54 |
| n-Heptane | | 8,300 | 2.4 | 0.52 | L,D1 | 0.5 |
| n-Hexane | | 1,700 | 2.4 | 1.1 | L,D1 | 0.4 |
| n-Nonane | | 3,000 | 1.2 | 0.04 | J,D1 | 0.44 |
| n-Octane | | 4,100 | 2.4 | 0.15 | J,D1 | 0.38 |
| n-Pentane | | 68,000 | 4.8 | 2.8 | L,D1 | 0.54 |
| n-Propylbenzene | | 510 | 1.2 | ND | D1 | 0.54 |
| n-Undecane | | 550 | 2.4 | ND | D1 | 0.54 |
| o-Ethyltoluene | | 250 | 2.4 | 0.01 | J,D1 | 0.26 |
| o-Xylene | | 1,700 | 2.4 | 0.15 | J,D1 | 0.54 |
| p-Diethylbenzene | | 450 | 1.2 | ND | D1 | 0.54 |
| p-Ethyltoluene | | 250 | 2.4 | 0.01 | J,D1 | 0.32 |
| Propane | | *Simple Asphyxiant | 2.4 | 37 | T,D1 | 1 |
| Propylene | | *Simple Asphyxiant | 2.4 | ND | T,D1 | 1 |
| Styrene | 26 | 5,200 | 2.4 | ND | D1 | 0.54 |
| t-1,3-Dichloropropylene | | 9.9 | 1.2 | ND | D1 | 0.4 |
| t-2-Butene | | 15,000 | 1.2 | ND | D1 | 0.36 |

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| Lab Sample ID 1702001-001 | | | | | | |
|---------------------------|----------------------------------|---|-------------------------|--|-------|----------------------------|
| Compound | Odor AMCV (ppb _v) | Short-Term Health AMCV (ppb _v) | SQL (ppb _v) | Concentratio ns (ppb _v) | Flags | SDL (ppb _v) |
| t-2-Hexene | | 490 | 2.4 | ND | D1 | 0.54 |
| t-2-Pentene | | 12,000 | 2.4 | ND | D1 | 0.54 |
| Tetrachloroethylene | | 1,000 | 1.2 | 0.01 | J,D1 | 0.48 |
| Toluene | | 4,000 | 1.2 | 4.7 | D1 | 0.54 |
| Trichloroethylene | | 100 | 1.2 | ND | D1 | 0.58 |
| Trichlorofluoromethane | | 10,000 | 1.2 | 0.22 | J,D1 | 0.58 |
| Vinyl Chloride | | 27,000 | 1.2 | ND | D1 | 0.34 |

^{*}A simple asphyxiant displaces air, lowering the partial pressure of oxygen and causing hypoxia at sufficiently high concentrations. ppbv - Parts per billion by volume.

ND - Not detected.

NQ - Concentration can not be quantified due to possible interferences or coelutions.

SDL - Sample Detection Limit (Limit of Detection adjusted for dilution).

SQL – Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).

INV - Invalid.

J - Reported concentration is below SDL.

L - Reported concentration is at or above the SDL and is below the lower limit of quantitation.

E - Reported concentration exceeds the upper limit of instrument calibration.

M - Result modified from previous result.

T - Data was not confirmed by a confirmational analysis. Data is tentatively identified.

F - Established acceptance criteria were not met due to factors outside the laboratory's control.

H – Not all associated hold time specifications were met. Data may be biased.

C - Sample received with a missing or broken custody seal.

R - Sample received with a missing or incomplete chain of custody.

I - Sample received without a legible unique identifier.

G - Sample received in an improper container.

U - Sample received with insufficient sample volume.

W - Sample received with insufficient preservation.

D1 - Sample concentration was calculated using a dilution factor of 4.01.

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Table 2. TCEQ Long-Term Air Monitoring Comparison Values (AMCVs)

Please Note: The long-term AMCVs are provided for informational purposes only because it is scientifically inappropriate to compare short-term monitored values to the long-term AMCV.

| Compound Long-Term Health | | Compound | Long-Term Health AMCV (ppb _v) | | |
|-----------------------------------|-------|--------------------------------------|--|--|--|
| 1,1,1-Trichloroethane | 930 | Cyclopentane | 590 | | |
| 1,1,2,2-Tetrachloroethane | 1 | Cyclopentene | 290 | | |
| 1,1,2-Trichloroethane | 10 | Dichlorodifluoromethane | 1,000 | | |
| 1,1-Dichloroethane | 100 | Ethane | *Simple Asphyxiant | | |
| 1,1-Dichloroethylene | 86 | Ethylbenzene | 440 | | |
| 1,2,3-Trimethylbenzene | 37 | Ethylene** | 5,300 | | |
| 1,2,4-Trimethylbenzene | 37 | Isobutane | 10,000 | | |
| 1,2-Dibromoethane | 0.05 | Isopentane (2-methylbutane) | 8,100 | | |
| 1,2-Dichloroethane | 0.72 | Isoprene | 2 | | |
| 1,2-Dichloropropane | 10 | Isopropylbenzene (cumene) | 51 | | |
| 1,3,5-Trimethylbenzene | 37 | m & p-Xylene (as mixed isomers) | 140 | | |
| 1,3-Butadiene | 9 | m-Diethylbenzene | 46 | | |
| 1-Butene | 2300 | Methyl Chloride (chloromethane) | 50 | | |
| 1-Pentene | 560 | Methylcyclohexane | 400 | | |
| 2,2,4-Trimethylpentane | 380 | Methylcyclopentane | 75 | | |
| 2,2-Dimethylbutane (Neohexane) | 100 | Methylene Chloride (dichloromethane) | 100 | | |
| 2,3,4-Trimethylpentane | 380 | m-Ethyltoluene | 25 | | |
| 2,3-Dimethylbutane | 99 | n-Butane | 10,000 | | |
| 2,3-Dimethylpentane | 2,200 | n-Decane | 175 | | |
| 2,4-Dimethylpentane | 2,200 | n-Heptane | 2,200 | | |
| 2-Chloropentane (as chloroethane) | 24 | n-Hexane | 190 | | |
| 2-Methyl-1-Pentene +1-Hexene | 49 | n-Nonane | 280 | | |

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| Compound | Long-Term Health AMCV (ppb _v) | Compound | Long-Term Health AMCV (ppb _v) |
|---------------------------------|--|-------------------------|---|
| 2-Methyl-2-Butene | 560 | n-Octane | 380 |
| 2-Methylheptane | 380 | n-Pentane | 8,100 |
| 2-Methylhexane | 2,200 | n-Propylbenzene | 51 |
| 2-Methylpentane (Isohexane) | 99 | n-Undecane | 55 |
| 3-Methyl-1-Butene | 770 | o-Ethyltoluene | 25 |
| 3-Methylheptane | 380 | o-Xylene | 140 |
| 3-Methylhexane | 2,200 | p-Diethylbenzene | 45 |
| 3-Methylpentane | 100 | p-Ethyltoluene | 25 |
| 4-Methyl-1-Pentene (as hexene) | 49 | Propane | *Simple Asphyxiant |
| Acetylene | 2,500 | Propylene | *Simple Asphyxiant |
| Benzene | 1.4 | Styrene | 110 |
| Bromomethane (methyl bromide) | 3 | t-1,3-Dichloropropylene | 0.99 |
| c-1,3-Dichloropropylene | 0.99 | t-2-Butene | 700 |
| c-2-Butene | 700 | t-2-Hexene | 49 |
| c-2-Hexene | 49 | t-2-Pentene | 560 |
| c-2-Pentene | 560 | Tetrachloroethylene*** | 3.8 |
| Carbon Tetrachloride | 2 | Toluene | 1,100 |
| Chlorobenzene (phenyl chloride) | 10 | Trichloroethylene | 10 |
| Chloroform (trichloromethane) | 2 | Trichlorofluoromethane | 1,000 |
| Cyclohexane | 100 | Vinyl Chloride | 0.47 |

^{*}A simple asphyxiant displaces air, lowering the partial pressure of oxygen and causing hypoxia at sufficiently high concentrations.

^{**}Long-term vegetation AMCV for Ethylene is 30 ppb.

^{***}Long-term vegetation AMCV for Tetrachloroethylene is 12 ppb.